

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Leslie Wong Examiner #: 68866 Date: 6/4/04
 Art Unit: 1761 Phone Number 305-272-1411 Serial Number: 101039427
 Mail Box and Bldg/Room Location: 8A51 Results Format Preferred (circle): PAPER DISK E-MAIL
Ransen

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Furfuryl propyl disulfide as a flavoring agent
and methods for preparing and using same
 Inventors (please provide full names): Ronald Louis Behringer, Benjamin Owen Isaac, Anne-Dominique Fortinneau

Earliest Priority Filing Date: 05/09/2000

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

① furfuryl propyl disulfide
 $(2\text{-furan}-\text{CH}_2\text{SSCH}_2\text{CH}_2\text{CH}_3)$ (claim 1)

as a flavorant

② Prepared by reacting sodium furfuryl thiolate with sodium propyl thiosulfate (claim 12)

STAFF USE ONLY
 Searcher: EL
 Searcher Phone #: _____
 Searcher Location: _____
 Date Searcher Picked Up: _____
 Date Completed: 6-4-04
 Searcher Prep & Review Time: 5
 Clerical Prep Time: _____
 Online Time: 55

Type of Search	Vendors and cost where applicable
NA Sequence (#)	STN <u>\$ 71.26</u>
AA Sequence (#)	Dialog _____
Structure (#)	Questel/Orbit _____
Bibliographic	Dr. Link _____
Litigation	Lexis/Nexis _____
Fulltext	Sequence Systems _____
Patent Family	WWW/Internet _____
Other	Other (specify) _____

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FILE 'REGISTRY' ENTERED AT 20:15:18 ON 04 JUN 2004
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FILE 'REGISTRY' ENTERED AT 19:54:12 ON 04 JUN 2004
E FURFURYL PROPYL DISULFIDE/CN

L1 1 S E4
E FURAN, 2-((PROPYLDITHIO)METHYL)-/CN
L2 1 S E3

FILE 'ZCAPLUS' ENTERED AT 19:57:22 ON 04 JUN 2004
L3 1 S L2

FILE 'REGISTRY' ENTERED AT 19:57:39 ON 04 JUN 2004
E SODIUM FURFURYLTHIOLATE/CN
E SODIUM FURFURYL THIOLATE/CN
E FURFURYL THIOLATE, SODIUM SALT/CN
E FURFURYL THIOLATE/CN

FILE 'ZCAPLUS' ENTERED AT 20:00:01 ON 04 JUN 2004
SEL L3 1 RN

FILE 'REGISTRY' ENTERED AT 20:00:07 ON 04 JUN 2004
L4 3 S E1-E3
E 2-FURANEMETHANETHIOL, SODIUM SALT/CN
E 2-FURANMETHANETHIOL, SODIUM SALT/CN
L5 1 S E3
L6 3 S 98-02-2/CRN
L7 3 S L5 OR L6
E SODIUM PROPYLTIOSULFATE/CN
E SODIUM PROPYL THIOSULFATE/CN
L8 1 S E4
E LITHIUM PROPYL THIOSULFATE/CN
E POTASSIUM PROPYL THIOSULFATE/CN
E C3H8O3S2
L9 40 S E3
L10 15 S L9 AND A1/PG
L11 1 S L10 AND L4
E THIOSULFURIC ACID (H2S2O3), 2-PROPYL ESTER, SODIUM SALT
E THIOSULFURIC ACID (H2S2O3), S-PROPYL ESTER, SODIUM SALT
L12 1 S E3
E THIOSULFURIC ACID (H2S2O3), S-PROPYL ESTER, LITHIUM SAL

E THIOSULFURIC ACID (H₂S₂O₃), S-PROPYL ESTER, POTASSIUM S
 E THIOSULFURIC ACID, S-PROPYL ESTER, LITHIUM SALT/CN
 E THIOSULFURIC ACID, S-PROPYL ESTER, POTASSIUM SALT/CN
 L13 1 S L10 AND METHYLETHYL?
 L14 2 S L12 OR L13

FILE 'ZCAPLUS' ENTERED AT 20:14:46 ON 04 JUN 2004
 L15 20 S L7
 L16 21 S L14
 L17 1 S L15 AND L16
 L18 1 S L3 OR L17

=> file zcaplus
 FILE 'ZCAPLUS' ENTERED AT 20:15:24 ON 04 JUN 2004
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L18 ANSWER 1 OF 1 ZCAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2001:833012 ZCAPLUS
 DOCUMENT NUMBER: 135:357074
 TITLE: Preparation and use of furfuryl propyl disulfide
 as a flavoring agent
 INVENTOR(S): Belanger, Ronald Louis; Isaac, Benjamin Owen;
 Fortineau, Anne-Dominique
 PATENT ASSIGNEE(S): Bush Boake Allen Inc., USA
 SOURCE: PCT Int. Appl., 22 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001084959	A1	20011115	WO 2001-US14998	20010508
W:	AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD,			

TG

GB 2363965

A1 20020116

GB 2000-11211

20000509

EP 1280419

A1 20030205

EP 2001-935217

20010508

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

US 2002110628 A1 20020815

US 2002-39427

20020104

PRIORITY APPLN. INFO.:

GB 2000-11211

A 20000509

WO 2001-US14998

W 20010508

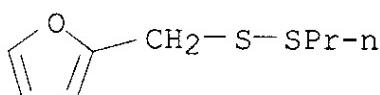
AB Furfuryl Pr disulfide, in organoleptically purified form and unaccompanied by substances of natural origin present in cooked beef and onions, is used as a flavoring. The flavoring agent may be used in a wide variety of ingestible vehicles to augment or enhance the aroma or taste of foods, particularly meat products, dairy products, and beverages. Thus, 0.5 ppm furfuryl Pr disulfide imparted a fatty, onion-like and juicy quality to bouillon soup. The flavoring is prepd. by reacting sodium furfurylthiolate with sodium propylthiosulfate.

IT 252736-36-0P

(prepn. and use of furfuryl Pr disulfide as flavoring agent)

RN 252736-36-0 ZCPLUS

CN Furan, 2-[(propyldithio)methyl]- (9CI) (CA INDEX NAME)



IT 6363-00-4

(reaction with sodium furfurylthiolate)

RN 6363-00-4 ZCPLUS

CN Thiosulfuric acid (H₂S₂O₃), S-propyl ester, sodium salt (8CI, 9CI)
(CA INDEX NAME)n-Pr-SO₃H

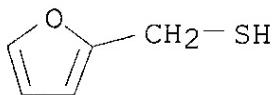
● Na

IT 42988-62-5

(reaction with sodium propylthiosulfate)

RN 42988-62-5 ZCPLUS

CN 2-Furanmethanethiol, sodium salt (9CI) (CA INDEX NAME)



● Na

IT 252736-36-0P

(prepn. and use of furfuryl Pr disulfide as flavoring agent)

IT 6363-00-4

(reaction with sodium furfurylthiolate)

IT 42988-62-5

(reaction with sodium propylthiosulfate)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

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FILE 'CAOLD' ENTERED AT 20:16:06 ON 04 JUN 2004

L19 0 S L7

L20 3 S L14

L21 0 S L19 AND L20

L22 0 S L2